.TumpNov, I. I.

30-10-17/26

AUTHOR:

Tumanov, I. I., Corresponding Member of AN USSR

TITLE:

Artificial Climate Station (Stantsiya iskustvennogo klimata)

PERIODICAL:

Vestnik AN SSSR, 1957, Nr 10, pp 111-116 (USSR)

ABSTRACT:

In 1957, the Institute of Plant Physiology imeni K. A. Timiryazev of the AS USSR established a "Station for artificial climate" in Ostankovo [Moskovskaya o.]. This experimental station is a complex of individual laboratories and halls having various "climatic" conditions. The purpose of the station is to study the behavior and the frost resistivity of various plant species under different climatic conditions. Seven low-temperature refrigerators of 1 m3 generating up to -70°C are used as ice-cabinets. Since these appliances are operating with Freon, a detrimental influence on the plants is out of question. Moreover, a detrimental influence on the disposal of the institute which are there are two large rooms at the disposal of the institute which are developed as ice-safes and in which the frozen test pieces are condeveloped as ice-safes and in which the frozen test pieces are conserved. Two further refrigerating chambers comprising each a surface of 4.5 sq m exist into which air of various temperatures and moisture content can be admitted. A number of heating chambers, in which any temperatures exceeding +10°C at any humidity content of the air can be

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Artificial Climate Station

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produced, is at the disposal of the scientists. Moreover, adjustable light intensities can be produced in these chambers. All necessary provisions are made in the glass-houses for producing any climate desired, and any rapid falls of temperature. The laboratory is amply equipped with special instruments and special rooms. There are bacteria-resistant operational and storage rooms which can equally be connected with the air conditioning plants. Further there is a separated tract in which only works with radioisotopes are carried out. There are 4 figures, and 3 references.

AVAILABLE:

Library of Congress

Card 2/2

TUMA NOV. I.I.; TRUNOVA, T.I.

Effect of growth processes on the hardening capacity of tissues in winter plants [with summary in English]. Fiziol. rast. 5 no.2:112-122 Mr-Ap '58. (MIRA 11:4)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR, Moskva.
(Plants--Frost resistance)

Sci. USSR

"Investigations in Plant Physiology at the New Station of the Intitute of Plant Physiology imeni K. A. Timiryazev, AS USSR (equipped with an airconditioning plant)."

scientific report presented at the Plenary Meeting of the Department of Biological Sciences, Acad. Sci. USSR, 16-17 June 1958 (Vest. AN SSSR, 1958, No. 8, p. 57-68)

AUTHOR: Tumanov, I.I., Corresponding Member, AS USSR

TITLE: The Soviet Phytotron (Sovetskiy fitotron)

PERIODICAL: Priroda, 1959, Nr 1, pp 112 - 117 (USSR)

ABSTRACT: The Soviet phytotron, called "Artificial Climate Station" ("Stantsiya iskusstvennogo klimata"), was established in Moscow-Ostankino by the Plant Physiology Institute of the AS USSR, and started operating in 1957. It is more elaborate than similar foreign installations. It deals with several aspects of plant physiology, such as winter resistance, drought resistance, salt resistance, mineral nutrition, cultivation, electric illumination, variation of align.

tivation, electric illumination, variation of climatic factors, cultivation in a bare gravel medium containing various nutritive extracts, etc. The installation consists of two buildings, a main two-storied building with laboratories and experimental substations (Figure 1) with the machine and experimental substations (Figure 1) with

tions (Figure 1) with the machinery installed in the basement, and a second building which is to house

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The Soviet Phytotron

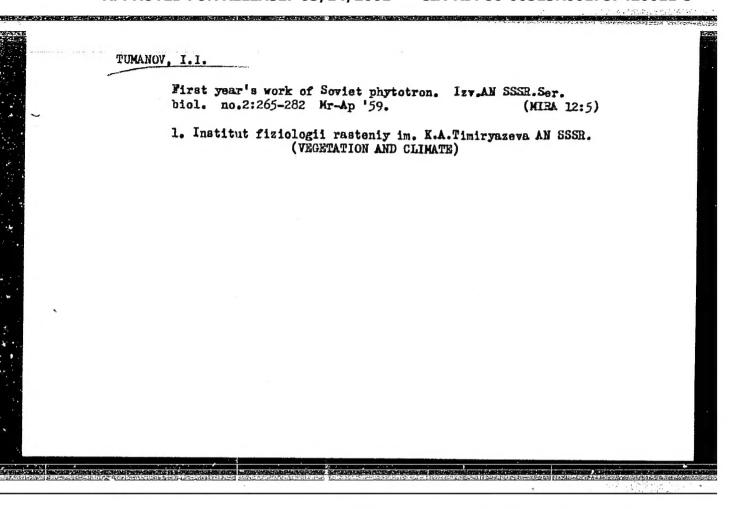
SOV/26-59-1-28/34

radio isotope laboratories. A daily production of 1,750 tons of specially processed air is expected when the installation is fully operative. A high light intensity for the cultivation of plants under artificial lighting is obtained by the combined use of 500-watt bulbs with neon tubes (40,000 lux). The scorching heat emanating from such a setup is dissipated by an 18-cm-high layer of water on an intermediate translucent ceiling above the plants. The author together with 0.A. Krasavtsev worked out a method to make plants resistant to low temperatures exceeding those prevalent on earth. They had special refrigeration systems installed that permitted temperatures up to minus 194°C. Setups for experimenting with isolated plant organs and tissues are also Institut fiziologic methods.

ASSOCIATION:

Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR /Moskva (The Plant-Physiology Institute imeni K.A. Timiryazev of AS USSR /Moscow)

Card 2/2



TUMANOV, I.I.; KUZINA, G.V.; KARNIKOVA, L.D.

Effect of photoperiods on the frost resistance of apricots and black currants. Fiziol.rast. 12 no.4:665-682 J1-Ag *65.

(MIRA 18:12)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR, Moskva. Submitted July 15, 1964.

AUTHORS: Tumanov, I. Corresponding Member S07/20-127-6-44/51

AS USSR, Krasavtsev, O. A., Khvalin, N.N.

TITLE: An Increase in Frost Resistance to -253° Attained in Birch and

Black Current by the Hardening Method

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1301 - 1303

(USSR)

ABSTRACT: The investigation of plant hardening could be continued (Ref 1)

by the putting into operation of the Stantsiya iskusstvennogo

klimata (Station of Artificial Climate) of the Institut

fiziologii rasteniy im. K. A. Timiryazeva (Institute of Plant Physiology imeni K. A. Timiryazev). As by stepwise cooling the frost resistance of birch branches was increased to -195° (Ref 2), the authors were faced with the task of producing, by an improved method, plants which do not freeze at even lower

temperatures. The Institut fizicheskikh problem AN SSSR (Institute of Physical Problems of the AS USSR) made possible the

freezing of branch bundles of some wood plants in liquid hydrogen. The cut-off branches were wrapped in cellophane and placed in refrigerators at -5° . For birch, the temperature was lowered every 24 hours by 5° so that it attained -60° on the

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An Increase in Frost Resistance to -253° Attained SOV/20-127-6-44/51 in Birch and Black Current by the Hardening Method

11th day. After this hardening process, the bundles were quickly immersed into liquid nitrogen, and left there for 48 hours. Current was hardened for up to 6 days. From the liquid nitrogen, the branches were transferred to liquid hydrogen where they remained for 2 hours to be transferred subsequently to liquid nitrogen again. The latter was slowly vaporized within 6 days. Thus, the branches were slowly brought up to higher temperatures and finally placed into a greenhouse for budding, After the cooling in liquid hydrogen, all buds of the Betula verrucosa developed, also the male and female inflorescences lived on (Fig 1). The branches frozen at -253° were not at all different from the control. The pollen of the "liquid hydrogen" variant germinated in a drop of 5% glucose solution at +25° within 2 hours to about 30% (Fig 2) as in the control. The birch branches, however, which were not hardened in the laboratory, were completely frozen at -40°. Similar results were obtained by experiments with 2 species of black current (Fig 3). The branches frozen at -253° remained only slightly behind in growth. There is reason to assume that the said plants can also be cooled down to the absolute zero without taking harm

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An Increase in Frost Resistance to -253° Attained SOV/20-127-6-44/51 in Birch and Black Current by the Hardening Method

(Ref 3). In another paper (Ref 4), the authors published the results concerning the reason why the branches of wood plants can stand such a low cooling. The plants attained their resistance to frost due to the protection from ice formation in the cells. The ice is formed in the intercellular spaces only. Without hardening the water has not sufficient time to flow into these spaces. The hardening capacity originates in the plants only after they have come into the resting period.

P. L. Kapitsa, Academician, facilitated the work with liquid hydrogen; S. A. Borovik-Romanov assisted at the experiments. There are 3 figures and 4 references, 3 of which are Soviet.

SUBMITTED:

June 1, 1959

Card 3/3

CHEPELEVSKIY, V., inzh.; TUMANOV, I., inzh.

Unified specifications for the receiving for overhauling, and the delivery after overhauling of motor vehicles, their parts and units. Avt.transp. 41 no.10:28-29 0 163. (MIRA 16:10)

TUMANOV, I.I.; KRASAVTSEV, O.A.; TRUNOVA, T.I.

Survival of winter wheat at -195° as a result of vitrification.
Dokl. AN SSSR 161 no.4:978-981 Ap '65. (MIRA 18:5)

1. Culen-korrespondent AN SSSR.

TUMANOV, I.I.; TRUNOVA, T.I.

First phase in the frost hardening of winter crops kept in sugar solutions in darkness [with summary in English]. Fiziol. rast. 10 no.2:176-188 Mr-Ap *63. (MIRA 16:5)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Plants—Frost resistance)

(Plants, Effect of sugars on)

TUMANOV, I.I.; TRUNOVA, T.I.

Laboratory method for hardening winter wheat against frost in saccharose solution in the dark. Agrobiologiia no.2:278-281 Mr-Ap '63. (MIRA 16:7)

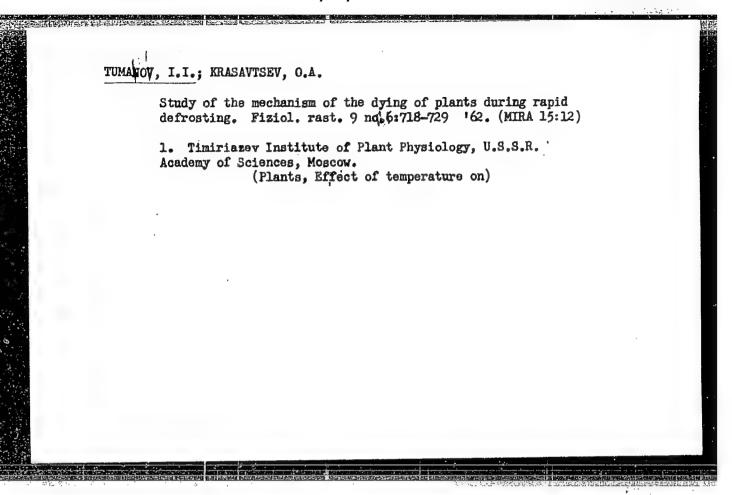
1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva. (Plants—Frost resistance) (Wheat) (Sucrose)

TUMANOV, I.I.; KRASAVTSEV, O.A.

Effect of thaving rate on the survival of vitrified cells and hardened plants, Fiziol. rast. 9 no.5:595-606 162. (MIRA 15:10)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Plants--.Frost resistance)



TUMANOV, I. I.

"Intermolecular aspects of the structural stability of protoplasm at the temperatures extremes."

UNESCO - International Symposium on the Role of Cell Reactions in Adaptations of Metazoa to Environmental Temperature.

Leningrad, USSR,

31 May - 5 June 1963

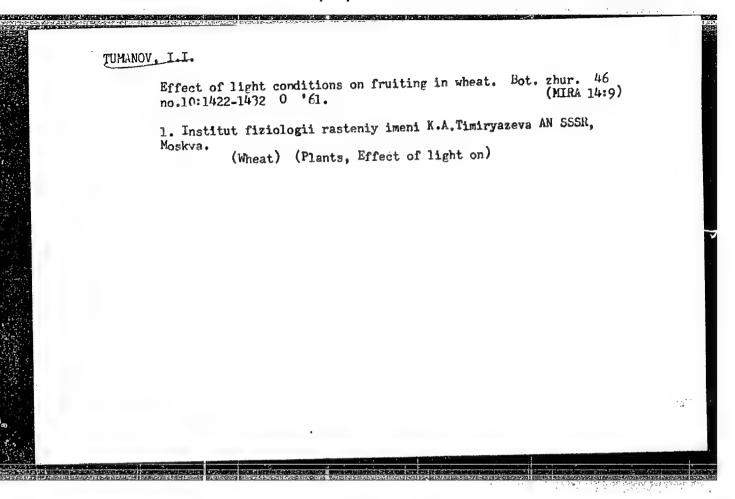
TUMANOV, I.I.; ISAKOV, N.A.; KHVALIN, N.N.

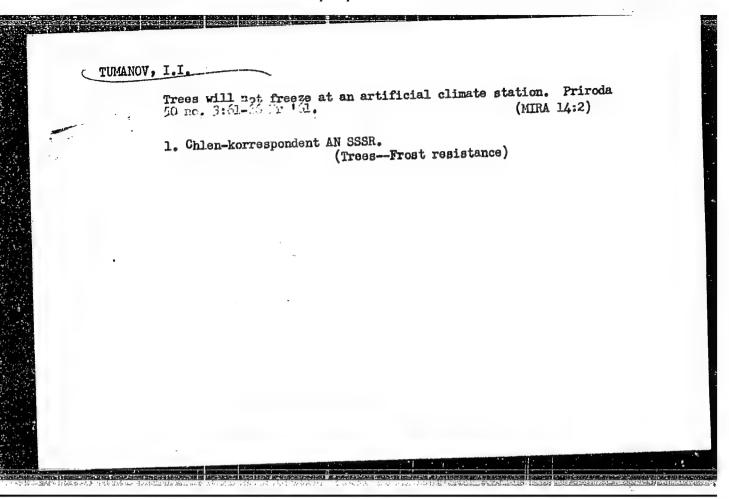
Field installation for determining the frost resistance of plants.

Vest.AN SSSR 32 no.7:69-72 Jl. '62. (MIRA 15:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Tumanov).

(Plants—Frost resistance)





TUMANOV, I.I., prof., otv.red.; GENKEL', P.A., prof., otv.red.; STROGONOV, B.P., kand.biol.nauk, otv.red.; SAMYGIN, Yu.A., red.izd-va; KASHINA, P.S., tekhn.red.; RYLINA, Yu.V., tekhn.red.

[Physiology of hardiness in plants; frost resistance, drought resistance, and salt tolerance. Transactions of the conference of March 3-7, 1959] Fiziologiia ustoichivosti rastenii; morozo-ustoichivost', zasukhoustoichivost' i soleustoichivost'. Trudy kenferentsii, 3-7 marts 1959 g. Moskva, 1960. 776 p.

(MIRA 13:12)

1. Akademiya nauk SSSR. Institut fiziologii rasteniy. 2. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR, Moskva (for Tumanov, Genkel', Strogonov). 3. Chlen-korrespondent AN SSSR

(for Tumanov).

(Plants-Frost resistance) (Plants, Effect of aridity on)

(Plants, Effect of salts on)

TUMANOV, I.I.; KUZINA, G.V.; KARNIKOVA, L.D.

Raising plants on gravel for research purposes. Fiziol.rast. 7 no.3:320-325 '60. (MIRA 13:6)

1. K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.
(Plants-Soilless culture)

TUMANOV, I.I.; KRASAVTSEV, O.A.

Hardening northern arbaraceous plants by subjecting then to negative temperatures. Fiziol.rast. 6 no.6:654-667 N-D 159. (MIRA 13:4)

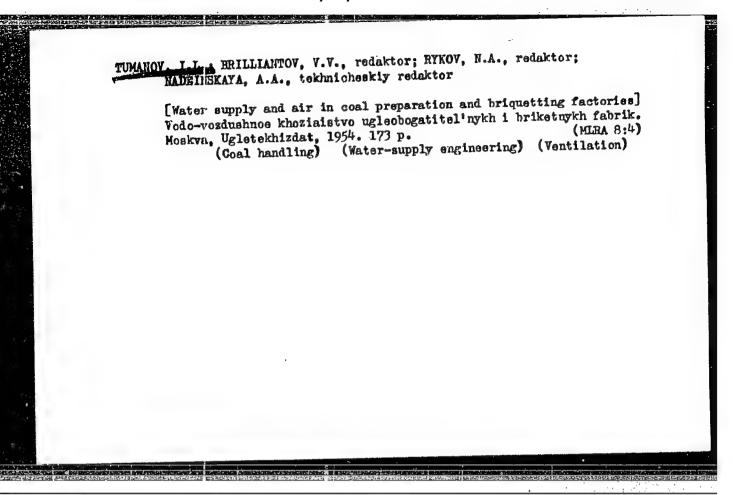
1. K.A. Timiriazev Institut of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

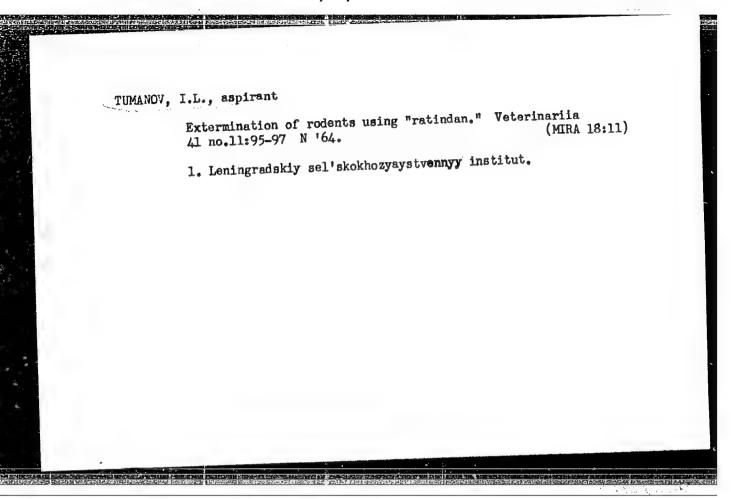
(Plants--Frost resistance) (Trees)

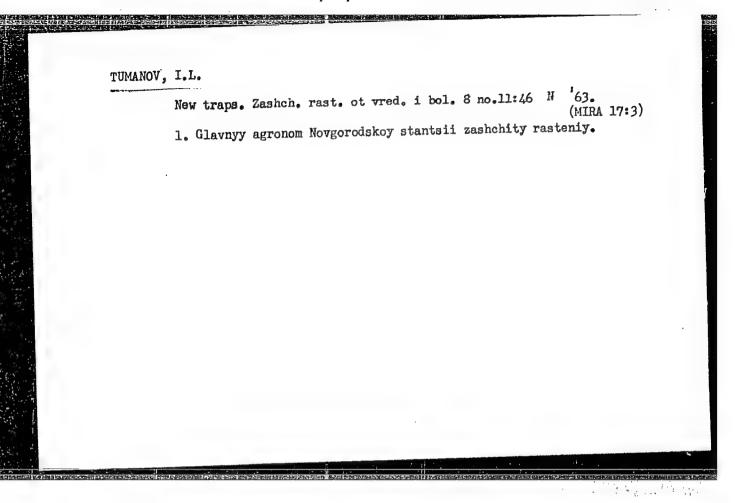
FRANK, G.M.; VLODAVETS, I., starshiy nauchnyy sotrudnik; TUMANOV, I.I.; DANISHEVSKIY, G.M., prof.

Biometeorology. Znan.sila 35 no.1:25-27 Ja '60. (MIRA 13:5)

1. Chlen-korrespondent AMN SSSR (for Frank). 2. Institut fizicheskoy khimii AN SSSR (for Vlodavets). 3. Chlen-korrespondent AN SSSR, direktor fitotrona Instituta fiziologii rasteniy AN SSSR (for Turanov). (Metereological research) (Bioclimatology)







TUMANOV, I.L.

Rodent "reservation." Zeahoh, rast. ot vred. i bol. 8 no.10:46-47 0 '63. (MIRA 17:6)

1. Glavnyy agronom Novgorodskoy stantsii zashchity rasteniy.

TUMANOV. Iven Lukich, GARBER, T.N., otv. red.; NADE INSKAYA, A.A., tekhn.red.; SABITOV, A., tekhn.red.

[Water and air supply in coal preparation and briquetting plants]
Vode-vozdushnoe khoziaistvo ugleobogatitel nykh i briketnykh fabrik.
Izd.2., perer. i dop. Hoskve, Ugletekhizdat, 1958. 199 p. (MIRA 1119)
(Coal preparation)

TUMANOV, I.L., inzh.

Priming on the basis of polyvinyl acetate emulsion. Der. prom. 14 no.10:3-4 0 '65. (MIRA 18:12)

1. Moskovskiy lesotekhnicheskiy institut.

TUMANOV. I.M.: VAKHRAMEYEV, S.A., redaktor

[Booklet on safety measures for workers using pneumatic tools]
Pamiatka po tekhnike bezopasnosti dlia rabochikh, pol'zuiushchikhsia
pnewmaticheskim instrumentom. 2. izd. Moskva, Gos. izd-vo po
stroitel'stvu i arkhitekture, 1954. 15 p. (MLRA 7:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel tekhniki bezopasnosti i promyshlennoy sanitarii. (Pneumatic tools--Safety measures)

TUMANOV, I.M.; BELYAEV, B.I., redaktor; KRASIL'SHCHIK, S.I., redaktor; TOMER, T.M., tekhnicheskiy redaktor

[Booklet on safety measures for electric welders] Pamiatka po tekhnike bezopasnosti dlia elektrosvarshchikov. 2. izd. Moskva, Gos. izd-vo lit-ry po stroitel'stva i arkhitekture, 1954. 25 p. (MLRA 7:8)

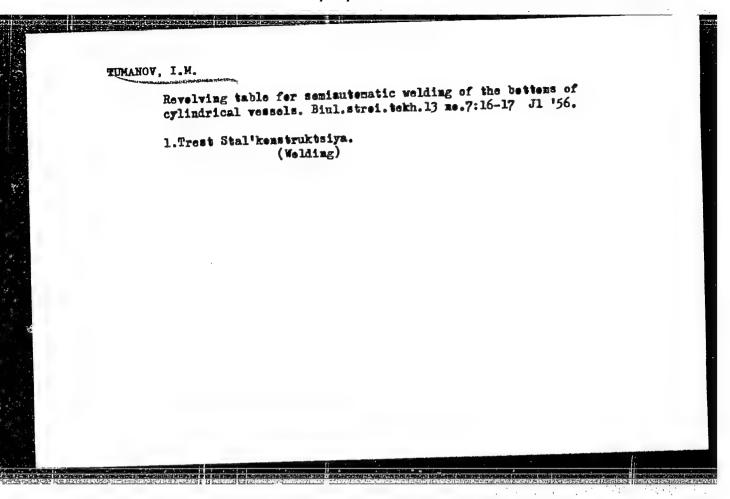
1. Russia (1923- U.S.S.R.) Ministerstvo stroitel*stva. Otdel tekhniki bezopasnosti i promyshlennoy sanitarii. (Welding--Safety measures)

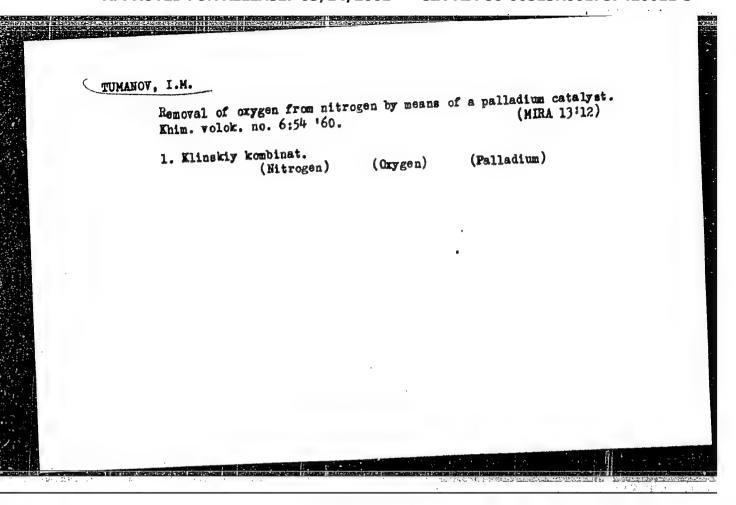
TUBYANSKIY, G.M.; TUMANOV, I.M.; KOPP, L.M., redaktor; KRASIL'SHCHIK, S.I., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

Signal and the second s

[Safety measures for metal construction assemblers] Pamiatka po tekhnike bezopasnosti dlia montazhnikov metallicheskikh konstruktsii. 2-e izd. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture. 1954. 42 p. (MLRA 7:12)

1. Russia (1923 - U.S.S.R.) Ministerstvo stroitel'stva. Otdel tekhniki bezopasnosti i promyshlennoy sanitarii. (Building, Iron and steel--Safety measures)





TUMANOV, I.P. Ruptures of the public symphysis during labor. Akush. i gin. 39 no.3:121-123 My-Je*63 (MIRA 17:2) 1. Iz kafedry akusherstva i ginekologii (zav. - chlen-korrespondent AMN SSSR prof. K.M.Figurnov (deceased)) Voyennomeditsinskoy ordena Lenina akademii imeni S.M. Kirova.

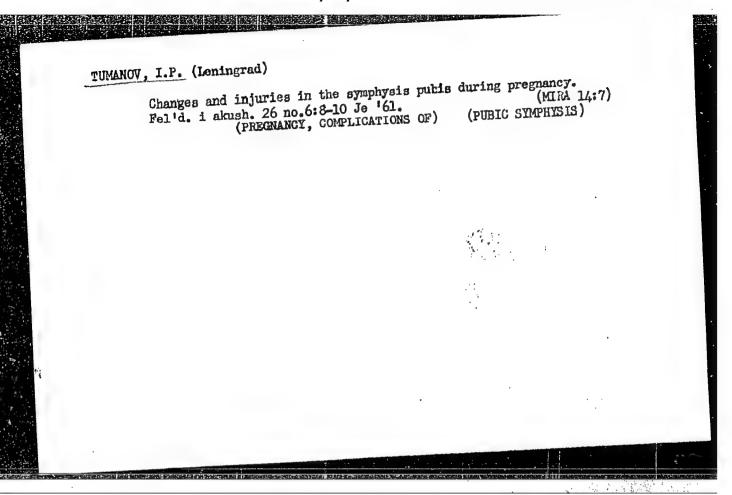
TUMANOV, I.F., klinicheskly ordinator

Uninary incontinence erising after rupture of the symphysis

publis during labor. Akush. i gin. no.1:128-129 '63.

(MIRA 17:6)

1. Iz kliniki akusherstva i ginekologii (zav. kafedroy chlenkorrespondent AMN SOSR prof. K.M. Figurnov [decensed]) Voyennomeditsinskoy ordena Lenina akademii imeni J.M. Kirova.



1021/

TENT

ABADZHI, Kirill Ivanovich; DRUZHININ, Boris Ivanovich; ISAYEV,
Boris Ivanovich; RUELNOV, A.D., kand. tekhm. nauk,
retsenzent; TUMANOV, L.F., inzh., red.; LEYKINA, T.L.,
red. izd-va; PETERSON, M.M., tekhm. red.

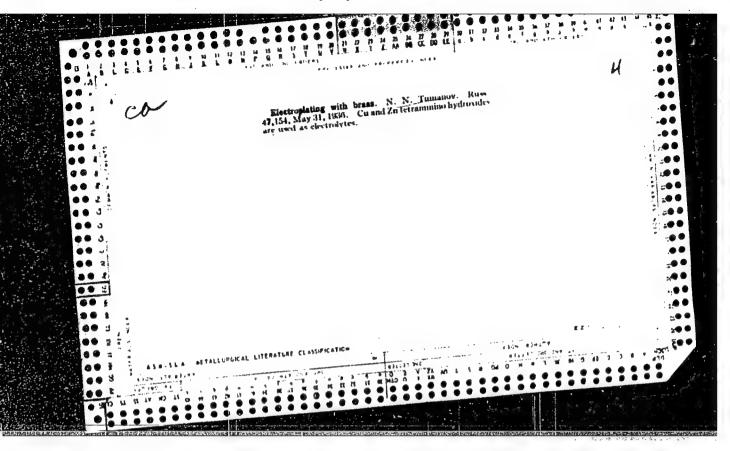
[Checking relative positions of machine-part surfaces]
Kontrol' vaslamogo raspolozhenida poverkhnostei detalei
mashin. Moskva, Mashgiz, 1962. 113 p. (MIRA 15:10)
mashin. Moskva, Mashgiz, 1962. 113 p. (Machinery--Construction) (Measuring instruments)

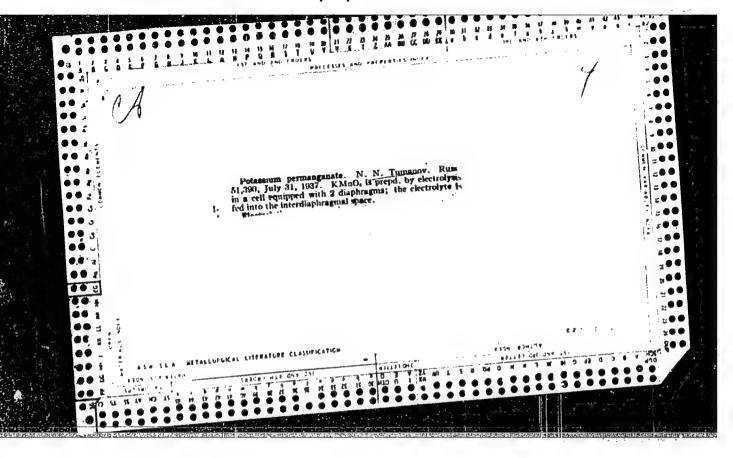
TUMANOV, L. P., Eng.

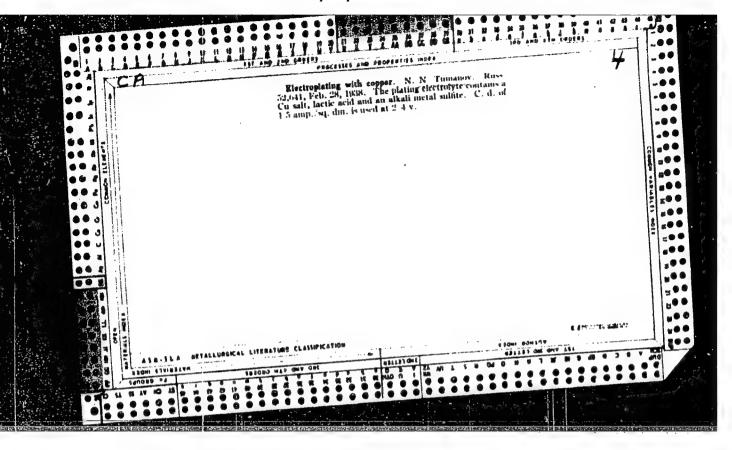
Filters and Filtration

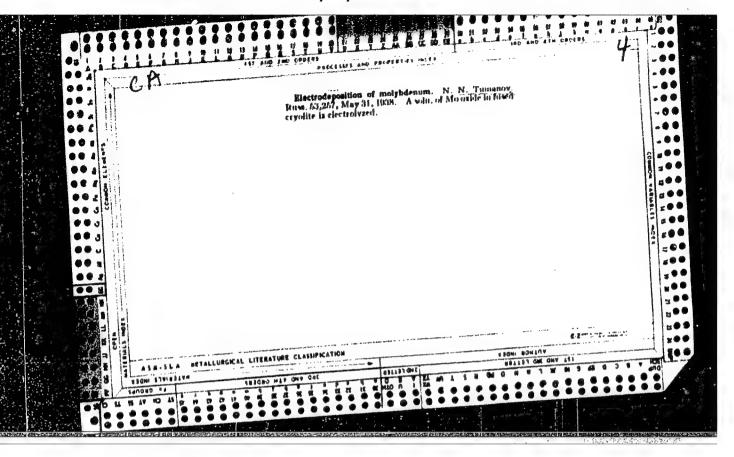
Filter for filtering enamel. Vest. mach., 32, No. 3, 1952.

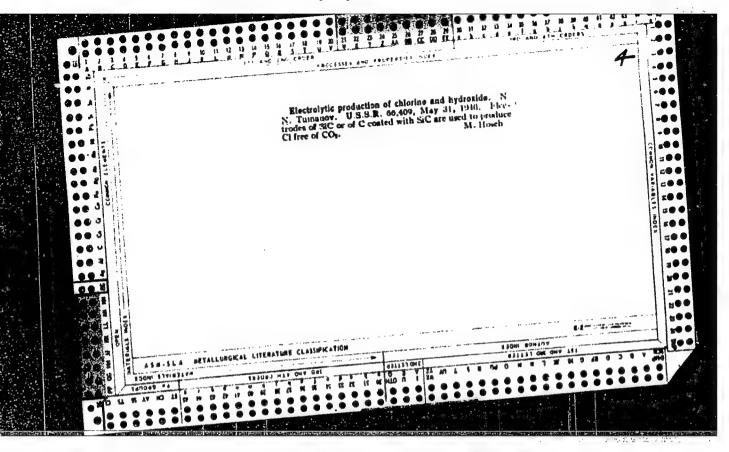
Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED

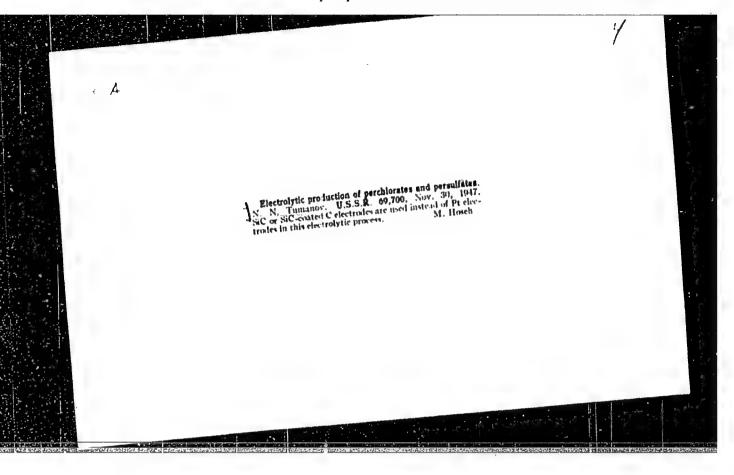


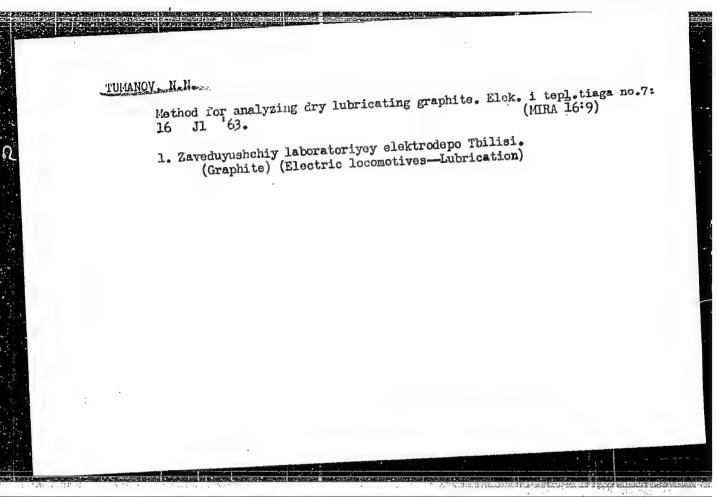


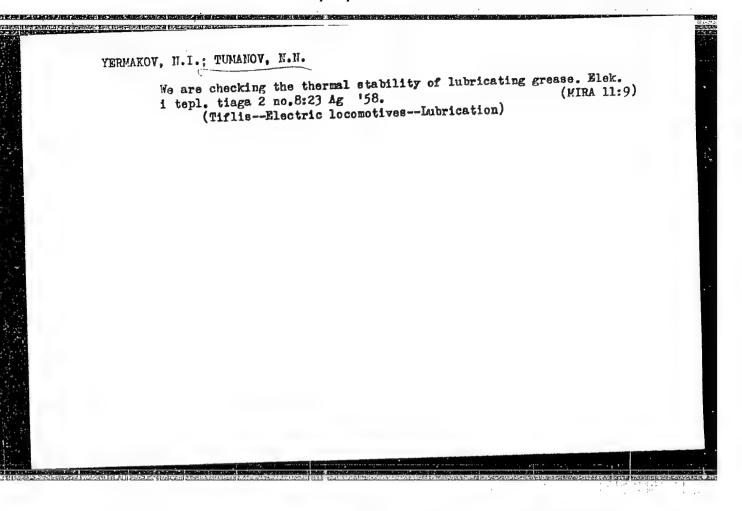












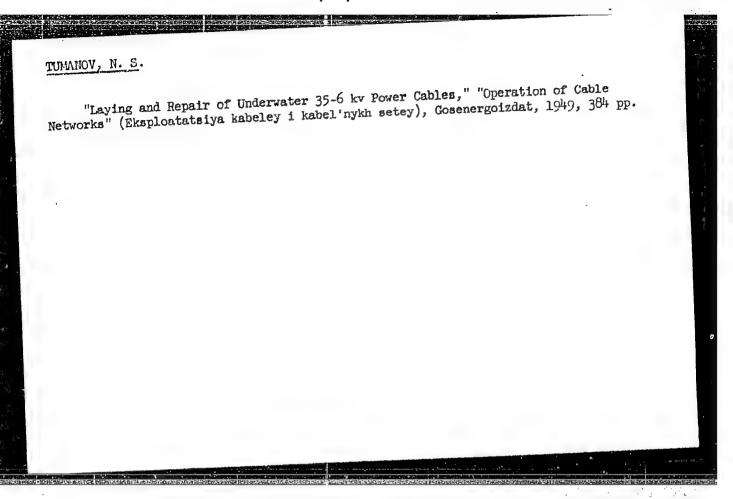
TUMANOV, N.S.

New machines for the procelain and faience industry. Stek.i ker. 19 no.4:40-43 Ap '62. (MRA 15:8) (Geramic industries-Equipment and supplies)

LUK'TANOV, V.I.; MYSLIN, V.A.; SHNEYEROV, A.I.; KHORKHOT, A.Ya.;
YELENSKIY, M.S.; MEL'NIKHOVA, O.M.; PLESHKOV, L.Ye.; OHLOV, V.V.;
ZLATOLINSKIY, V.N.; VISHBEVSKIY, F.L.; LAPSHENKOV, P.G.; MAKHOV.
M.S.; HUKAVISHNIKOV, I.D.; LYTKIN, K.F.; KOZHEVNIKOV, O.A.;
ZORKIN, G.W.; NORMAN, B.B.; TUMANOV, N.S.; SEREBRYANIKOV, S.M.;
VOLKOV, N.G.; NOVIKOV, P.G.; FRIDBERG, G.V., inzh., red.izd-va;
GELINSON, P.G., tekhn.red.

[Designing chief plans for industrial plants; principal methods] Proektirovanie general'nykh planov promyshlennykh predpriiatii; osnovnye polozheniia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 103 p.

l. Akadomiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki. 2. Nauchno-issledovatel'skiy
institut gradostroitel'stva Akademii stroitel'stva i arkhitektury
USSR (for Khorkhot, Yelenskiy, Mel'nikhova). 3. Gosudarstvennyy institut proyektirovaniya metallurgicheskikh zavodov (Gipromez) (for
Pleshkov). (Continued on next card)



TUMANOV, N.S., inzh.

Experience in laying 6-35 kv. underwater cables. Energetik 12 no.10:
18-21 0 '64.

(MIRA 17:11)

YAKIMOV, L.K., doktor tekhn.nauk; TUMANOV, N.Ye., kand.tekhn.nauk; KNYAZEV, A.M., kand.tekhn.nauk

Design of the ash and slag conducting pressure pipelines of electric power plants. Elek.sta.33 no.1:14-18 Ja '62. (MIRA 15:3) (Ash disposal)

STRAKHOVSKIY, G.M.; TATARENKOV, V.M.; TUMANOV, O.A.

Maser with two series-connected resonators on amenia glung (lime 3,2). Izv.vys. ucheb.zav.; radiofiz. 6 no.6:1279-1280 (MIRA 17:4)

'63.

1. Fizicheskiy institut imeni Lebedeva AN SSSR.

s/0141/63/006/006/1279/1280

ACCESSION NR: AP4017046

AUTHORS: Strakhovekiy, G. M., Tatarenkov, V. M., Tumanov, O. A.

TITLE: Ammonia maser with two cavities in series (3, 2 line)

SOURCE: IVUZ. Radiofizika, v. 6, no. 6, 1963, 1279-1280

TOPIC TAGS: maser, ammonia maser, two cavity maser, maser frequency characteristic, maser power characteristic, 3, 3 line maser, 3,2 line maser.

ABSTRACT: In order to eliminate some of the frequency instabilities which are still present in an ammonia maser with two cavities in tandem (F. H. Reder and C. I. Bickart, Rev. Sci. Instr., v. 31, 1164, 1960) tuned to the (3, 3) line, the authors investigated the feasibility of a similar maser using the (3.2) line. The ammonia source (channel 10 mm long and 1 mm in diameter), the state separator, and the two cavities were arranged on one line, with the cavities spaced

Card 1/2

ACCESSION NR: AP4017046

10 mm apart. Cavities with identical Q (\approx 8000) were used in the E mode. With a sufficiently high sorter voltage, (20 kV), the curve of the second-cavity power vs. first-cavity detuning exhibited the typical dip at zero detuning characteristic of the two-cavity maser with the 3, 3 ammonia line, thus demonstrating that the 3,2 line can be used in two-cavity masers. Orig. art. has: 2 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR)

SUBMITTED: 01Jun63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 004

Card 2/2'

Indissoluble union... Sov. profesiuzy 18 no.24:18-19 D *62. (MIRA 16:1) 1. Zaveduyushchiy otdelcm po voprosam raboty Sovetov Prezidiuma Verkhovnogo Soveta SSSR. (Russia—Politics and government)

TUMANOV, P.A.: LYASHENKO, A.I.

Stratigraphy of the middle Devonian in the southwestern Timan region, Dokl. AN SSSR 113 no.6:1338-1341 Ap !57. (MIRA 10:6)

1. Institut nefti Akademii nauk SSSR. Predstavleno akademikom D.V. Nalivkinym.

(Timan Ridge--Geology, Stratigraphic)

AUTHOR TITLE TUMANOV, P.A., LYASHENKO, A.I. 20-6-43/59
The Stratigraphy of the middle Devonian in the South-eastern
Near-Timan Region. (Stratigrafiya srednego Devona yugo-

vostochnogo Pritiman'ya.- Russian)

PERIODICAL

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 6, pp 1338 - 1341

(U.S.S.R.)

ABSTRACT

The stratigraphic scheme of the Devonian in the South-Timan region was worked out by the geologists of Ukhta and furthermore detailed for the upper Devonian. The deposits of the middle Devonian were sorted out as Chibyus-suite. In recent years Devonian marine olayey-carbonaceous deposits, well characterized by fama, were discovered by means of bore holes on the southeastern slopes of Timan. They were counted to the Chibyus-suite and compared with the Staro-Oskol strata. Kernematerial was collected and investigated by the first author from the Verkhneizhemsk district. A number of lithologic horizons were sorted out. These data abruptly change the hitherto existing opinions concerning the rook age and facilitate an essential particularization of the stratigraphy. Thanks to the existence of a mixed fauna of the Ural- and plateau type, comparison between the middle Devonian deposits of the central parts of the Russian Plateau

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20-6-43/59

The Stratigraphy of the middle Devonian in the South-Eastern Near-Timan region.

and the Ural could be exactly defined. Pechora-horizon. The basal sandy -olayey mass of the middle Devonian lies on an eroded surface of older deposits of different ages with an angular discordance. Many remnants of psilophyte flora are found. The horison is to be classed among the lower Eifel stratum. On it there is a stratification of a thick carbonaceous-clayey mass for the 3 horizons of which the following 3 terms are suggested: Soyva-horizon (15 - 20 m thickness). Because of the flora this horizon is also to be olassed among the Eifel substratum. Kedrov-horizon (6-12 m thickness). According to rich and manifold fauna the Eifel age of the Mors-horizon can be determined with certainty. Omra-horizon (40-50 m thickness). It is possible that it corresponds to the infradomanic. The terrigenous mass lying on it was counted among the upper Devonian by Ukhta-geologists. Furthermore it is shown that the main part of these deposits belongs to the middle Devonian. Their lower part apparently corresponds to the Vorobyev-horizon. For the upper part the name: Troitskiy horizont is suggested. It lies transgressively on lower strata (85 m thickness). Poor fauna, chiefly Lingula and phyllopods. The upper part of the terrigenous mass, counted to the

CARD 2/3

20-6-43/59

The Stratigraphy of the middle Devonian in the South-eastern Near-Timan Region.

Pashiysk-suite by the geologists of Ukhta, already belongs to the upper Devonian. (1 stratigraphic scheme, 4 Slavic references.)

ASSOCIATION: Petroleum Institute of the Academy of Science of the U.S.S.R.

PRESENTED BY: D.V. NALIVKIN, Member of the Academy.

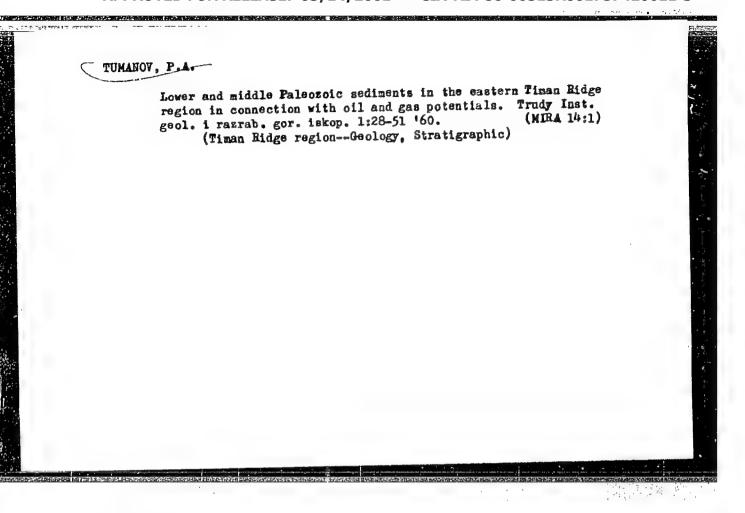
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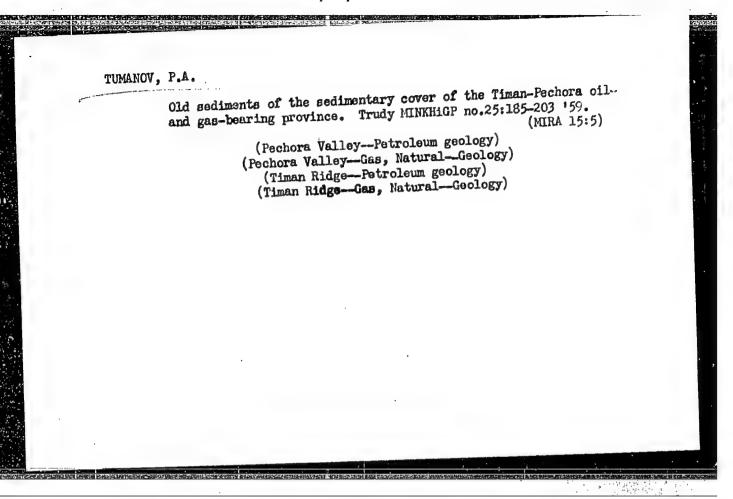
AVAILABLE:

Library of Congress.

CARD 3/3

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YEFREMOV, Ye.A., nauchnyy sotrudnik; TSIKERMAN, L.Ya., nauchnyy sotrudnik; TUMABOY, P.A. A STATE OF THE PARTY OF THE PAR

Automatic and remote control of underground installations in municipal sewers. Gor. khoz. Mosk. 32 no.9:27-31 S '58.

1. Akademiya kommunal nogo khozyaystva imeni K.D. Panfilova (for Yefremov, TSikerman). 2. Glavnyy inzhener Kontory ekspluatatsii vodostokov i kollektorov (for Tumanov). (Sewers, Concrete) (Remote control) (Automatic control)

CIA-RDP86-00513R001757420011-3" APPROVED FOR RELEASE: 03/14/2001

TUMANOV, P. A., Candidate Geolog-Mineralog Sci (diss) -- "The oil-and-gas content of the Middle Devonian deposits of the northeastern slope of the southern Timan". Moscow, 1959. 16 pp (Acad Sci USSR, Inst of Geology and Exploitation of Mineral Fuels), 250 copies

TUMANOV, P.A.

ZAYIMAN, Ya.A., inzhener; TIMANOV, P.A., inzhener.

Use of collecting channels for underground installations. Gor.khoz.

(MIRA 8:3)

Mosk.29 no.1:15-18 J '55.

(Moscow—Underground construction) (Moscow—Pipelines)

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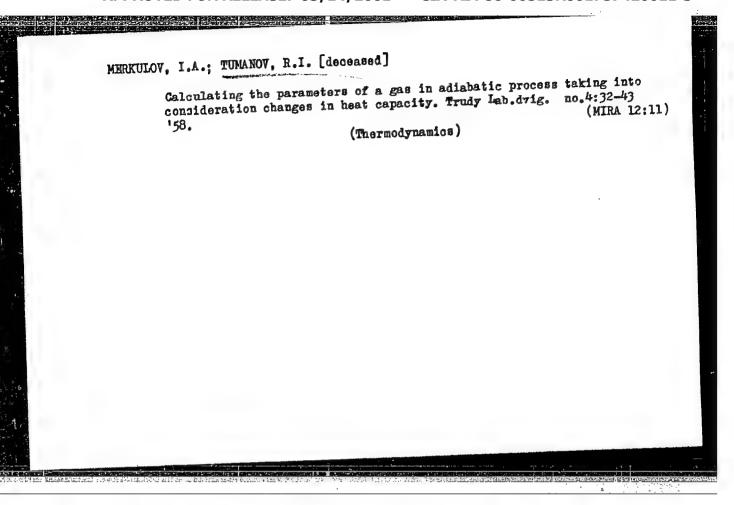
President to

TUMANOV, Petr Aleksandrovich; SOKOLOV, V.L., otv. red.; KISEL'MAN, G.S., red. izd-va; YEGOROVA, N.F., tekhn. red.

[Oil potential of Middle Devonian sediments in the northeastern slope of the southern Timan Ridge] Neftegazonosnost' srednedevon-skikh otlozhenii severo-vostochnogo sklona IUzhnogo Timana. Moskva, skikh otlozhenii severo-vostochnogo sklona IUzhnogo Timana. Moskva, Izd-vo Akad.nauk SSSR, 1962. 87 p. ____ Diagrams.1-6, 8-9, 17-18.

(Timen Ridge-Petroleum geology) (Pechora Valley-Petroleum geology)

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	S6(1,4) PRASE I BOOK EMPLOITATION SOV/2543	333R. Laboratoriy	Teoriys, knostruktslys, raschet i ispytaniys dyigitaley vmitrahokov agursalys (Theory) Design, Galculskion, and Testing of Internal Combustion Notors) Mason, Eds-ro Al SSSN, 1958. 174 p. (Series) Els: Trucky vyp. 4) Errata slip inserted. 3,000 copies printed.	use: V.M. K. K.D. Apakher date of Technological Science ngineer.	TURFOUR: This book is intended for workers of solarific research institutes, atudents of schools of higher education (wizes), de- sign bureaus, and to promote schange of experimental information on the thermodynamics of internal combustion engines.	OE: This collection considered work done by the authorities processes in Eas t	experimental world. Eart II confidence engine uperatures of gas thous of the English to personalities	and R. Sand R. Sand R. Sand V. Sand V. Park tiles	5. Shirohov, M.F., and I.I. Samenov. Problems of the Theory of Samintholov, M.F., and I.I. Samenov. Spainteness of the Samintholov.	Body. any be defined by a complex system of hydrodynamic differential may be defined by a complex system of hydrodynamic differential equations and by chemical himstics and diffusion. This ar- table considers only stationary processes in which the fields of components of relocity vectors presentes density, etc., are only functions of three-densitional coordinates and are independent of time. In these conditions it is known to an about the the fields initial conditions is known to longer accessary to formulate the initial conditions is known that the fields can etablization is well and mare by poorly streamlined bodies (etablization is well and mare, the other accesses any or being the the the initiation is the initial conditions.	in Reat Excha	ough Pipes The article consists of two parts. The first presents a marked for ealculating gas characteristics for any spaces of from a heat exchange based on heat frows in the cutility provides a wathed for calculating gas characteristics for gas characteristics for flow through circular pipes in beat acchangers. It is possible to determine by the second method the gas characteristics in the outlet without making a full has calculation and without which gas characteristics in the outlet without and without and without knowing the length of pipes, and	in special cases without incoring the diameter of pipes. It is also possible to debremine the W number directly in the outlet and inlet according to the given byframing resistance without making a heat calculation. There are 2 Soviet references.	
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DRIGOS. I.G. [Driggs. Ivan H.]; LAHKASTER, O.Ye. [Lancaster, Otis E.];
MIRONOV, G.G. inzh. [trnsslator]; TUMANOY, R.L., inzh. [trnsslator];
SHRHKIH, V.P., inzh. [trnsslator]; YAROYSKIY, G.Yu., inzh., red.;
BOGOHOLOVA, M.F., red. izd-va; SHCHERRAKOV, P.V., tekhm.red.

[Gas turbines for aircraft. Trnsslated from the English] Aviatsiomye
gazovye turbiny. Perevod s angliiskogo G.G. Mironova, R.I. Tumanova i
y.P.Shenine. Moskva, Gos.izd-vo obor, promyshl., 1957. 338 p.

(Airplanes-Turbojet engines)

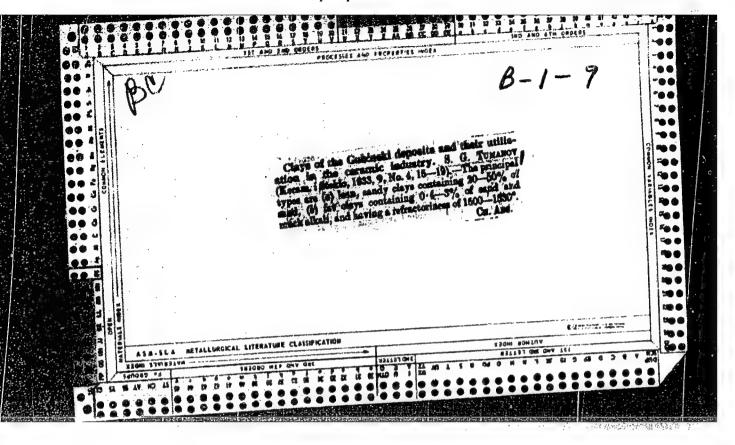
(Airplanes-Turbine-propeller engines)

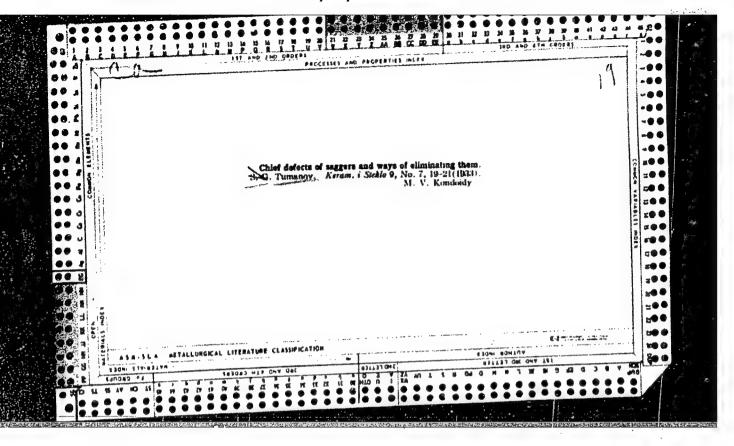
(Airplanes-Turbine-propeller engines)

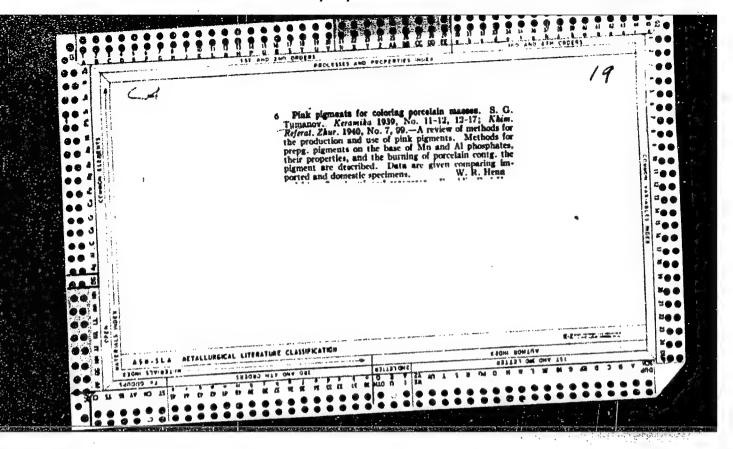
TUMANOY, S. A. O staklotsementnoy keranike. (Po povodu rabot T. 1. Kitaygorodskogo i stati i V. V. Goncharova "O steklokefamike kak ogneupormom materiale" 7 zhurn. "Ogneupory", 1949, Fo. 4.)
Ogneupory, 1949, No. 6, s. 284-87.

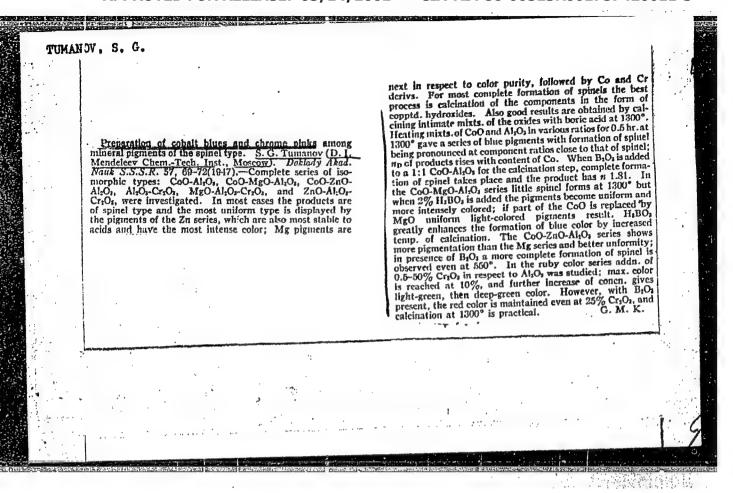
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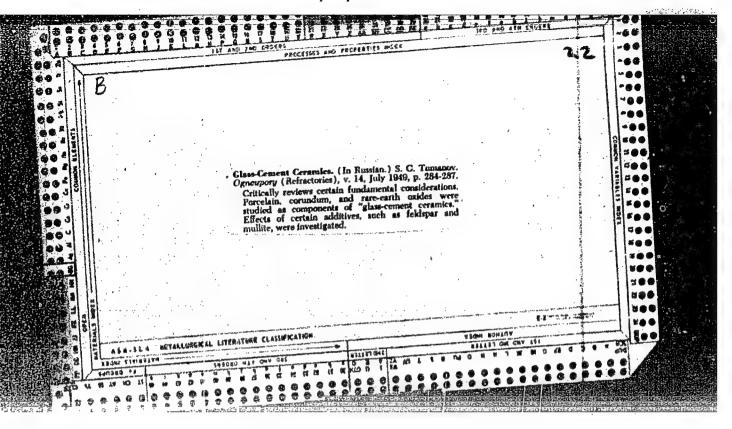
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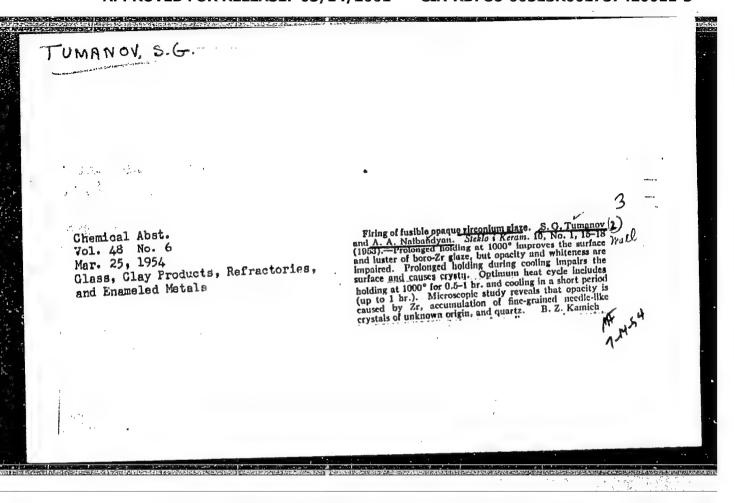




TUMANOV, S.G., doktor tekhn. nauk; BULAVIN, Yu.I.

Increase of the whiteness of enamel coatings on aluminum.
Stek. 1 ker. 20 no.9:29-30 S '63. (MIRA 17:6)

1. Dulevskiy krasochnyy savod.



TUMANOV SG.

USSE/Miscellamecus - Purchleum Manufacture

Card 1/1

Pub. 104 - 8/11

Authors

: Tumanov, S. G., Prof. Dr. Tech. Sc., and Kirillova, M. G.

Title

: Individual porcelain mass processing methods and their effect on the pro-

perties of porcelain

Periodical : Stek. 1 ker. 2, 23 - 24, Feb 1955

Abstract

: Comparative tests were conducted to determine the effect of individual porcelain mass processing methods on the final qualitative indices of porcelain with special consideration of the steaming method. Results indicate that such percelain mass processing methods as: 90-day aging, preliminary heating in liquid state to 20-40 for a period of 24 hrs., or passing

through a vacuum mill do increase the mechanical stability of the mass both

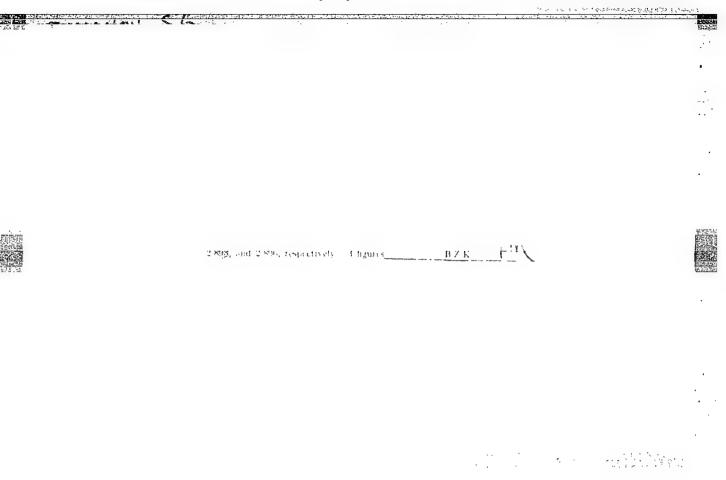
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in air-dry and in calcined states. Tatles.

Institution:

Submitted:





LEVIN, P.A.; TERANOV, S.O.

Solvents, polymers, and other components for liquid polishing gold. Zhur. prikl. khim. 38 no. 10:2264-2269 0 '65.

1. Submitted Sept. 2, 1963.

ACC NR. AP5025658

SOURCE CODE: UR/0080/65/038/010/2264/2269

AUTHOR: Levin, P. A.; Tumanov, S. G.

ORG: none

TITLE: Solvents, polymers and other component parts of gilding solutions

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 10, 1965, 2264-2269

TOPIC TAGS: gold, porcelain, metal coating, ceramic coating

ABSTRACT: The purpose of this investigation was to develop gilding solutions which would spread easily, not flow outside the coverage areas and make no runs, but form films uniform in thickness. Resins, solvents and other components must be sufficiently stable on storage and must have the required consistency and adhesion to procelain prior to kiln drying. The tests were conducted with rosin, shale pitch, Syrian asphalt, bitumen, phenolformaldehyde resin, polymethyl- and polybutylmethacrylate, PKhV-4 and PKhV-11 resins, cop21, cumarone resin, shellac, acetyl and ethylcellulose. The following solvents were used: turpentine, aromatic and chlorinated hydrocarbons (benzene, toluene, chloroform, chlorobenzene and others), tetrahydronaphthaline, cylcohexanol, cyclohenanone, nitrobenzene, ethylbenzoate, etheral oils and others. Some polymers along with the formation of a film also decrease the gloss of the gold deposit in the course of kiln drying. This property of gilding preparations depends on

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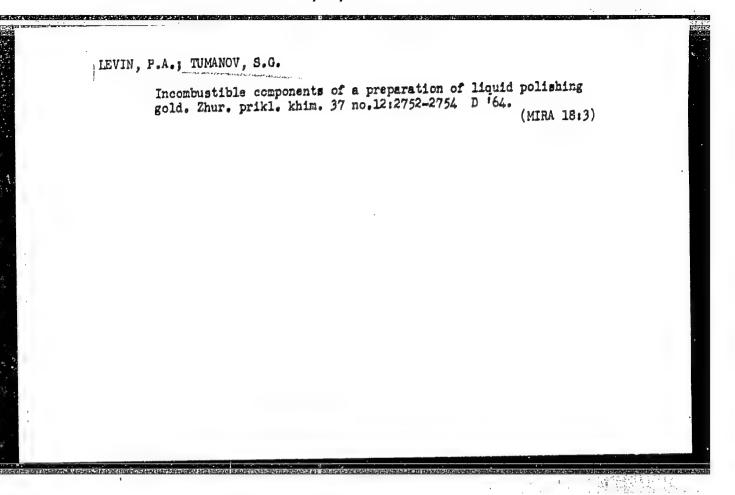
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ACC NR. AP5025658

the solvents which are present. The replacement of soluble metal compounds by insoluble metal compounds or the use of inert solvents improves the properties of gilding preparations. The use of surfactants and stabilizing additives has an adverse effect on the properties of fired gold paint. The authors express their gratitude to P. P. Budnikov for consultations in the course of these investigations. Orig. art. has: 3 tables, 2 figures.

SUB CODE: 11/ SUBM DATE: 02Sep63/ ORIG REF: 003/ OTH REF: 000

90



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Containing new charges pigments of the spired sym. Side : Zer. 22

(Mind 18:6)

1. Palevskiy krasochnyy zerod.

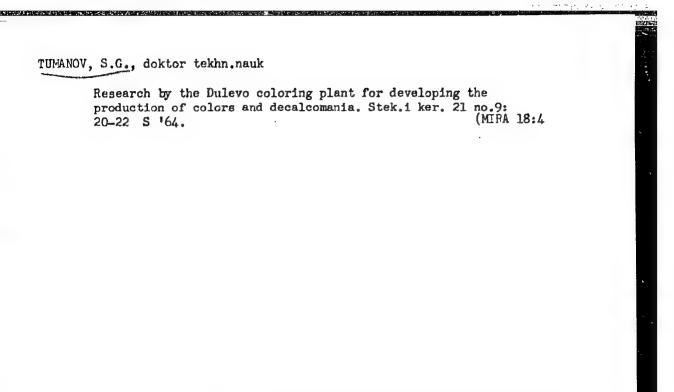
LEVIN, P.A., inzh.; TUMANOV, S.G., doktor tekhn. nauk

Liquid gold preparations for decorating purposes. Stek. i

ker. 21 no.7:33-35 Jl '64.

1. Dulevskiy krasochnyy zavod.

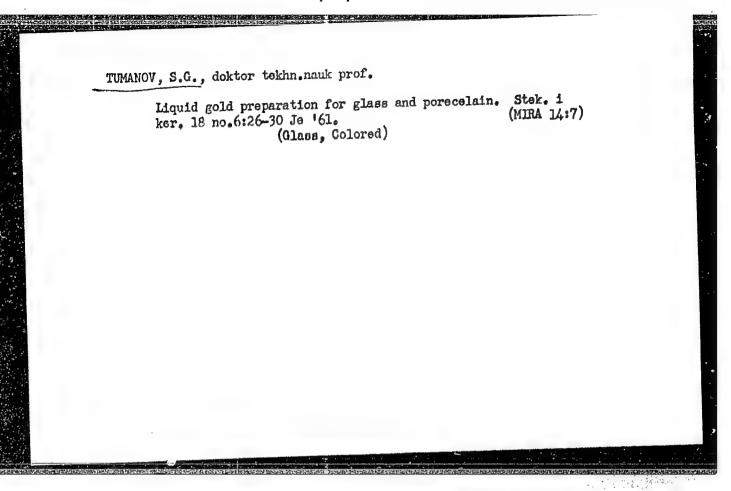
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TUMANOV, S.G., doktor tekhn.nauk, prof.

We answer readers' questions. Stek.i ker. 19 no.11:43 N '62.

(Glass research) (Geramics)



TUMANOV, S.G., doktor tekhn.nauk

Making purple lustre for painting glass and porcelain. Stek. i
ker. 17 no.12:18-22 p '60. (MIRA 13:11)

(Glass painting and staining)

15 (2)

El'kinson, R. Z., Professor, Doctor

sov/72-59-5-2/18

AUTHORS:

of Technical Sciences, Tumanov, S. G.

TITLE:

The Use of Vibration for Molding Ceramic Products by the

Cast Method (Primeneniye vibratsii pri oformlenii

keramicheskikh izdeliy metodom lit'ya)

PERIODICAL:

Steklo i keramika, 1959, Nr 6, pp 7-12 (USSR)

ABSTRACT:

The paper by Z. A. Nosova and T. Kh. Fedorova (HII Stroykeramika) states that the vibration for speeding up the molding of ceramic sanitary-building materials is suitable only in the case that pre-heated sline and pastes having a reduced content of aluminous components be used. Since quite

a number of questions could not be solved in that

investigation, the NII Stroykeramika carried through some investigations which are the subject of this article. The table shows the composition of the pastes employed. Soluble glass and calcinated soda have been added to the slime as diluting electrolytes. Investigations on the vibration effect

have been undertaken on a vibrating plate designed by

A. Ye. Desov and P. S. Kuznetsov (Footnote 1) and equipped with a mechanical drive of the type constructed by the

card 1/3

The Use of Vibration for Holding Ceramic Products by 507/72-59-6-2/13 the Cast Method

engineers L. G. Brodskiy and A. A. Velikzhaninov of the FKB NII Stroykeramika. Amplitude and frequency of vibrations has been measured with the manual vibrograph VG-1. The authors refer in this respect to the papers by Yu. I. Iorish (Footnote 2). Figures 1 and 2 give information regarding the vibration influence on paste filtration. Professor V. A. Chernov recommended a method for determining the combined water content in the slime. Figure 3 shows that a reduction of the slime's initial moisture considerably slows down the filtration speed of all pastes investigated. According to the paper by A. V. Dumanskiy (Footnote 3) this is due to the reduction of the quantity of combined water in the initial suspension. The mechanical resistance of the molded piece immediately after extraction from the plaster mold has been determined according to the method of the Academician P. A. Rebinder with a conical meter for measuring plasticity designed by M. P. Volarovich and S. N. Markov, in which connection the authors of this article refer to the papers by I. A. Al'perovich, P. I. Berenshteyn, G. S. Blokh, I. K. Antonevich and I. M. Gorkova (Footnotes 4 and 5). The values

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The Use of Vibration for Molding Geramic Products by SOV/72-59-6-2/18 the Cast Method

measured are summarized in figure 4. Figures 5 and 6 show the dependence of mechanical resistance on the vibration amplitudes. Conclusions: The influence of vibration increases the filtration speed only slightly and is practically of no influence on the general rate of moisture delivery. The use of the vibration method favors the moisture delivery thus reducing the residual moisture of the molded piece. The action of vibration increases the mechanical resistance of the molded piece which gives the possibility of using pastes having a reduced portion of aluminous components. This method allows molding of slimes having a temperature ranging between 40 and 60 centigrades. There are 6 figures,

Card 3/3

TUMANOV, S.G., doktor tekhn.nauk; VORONKOV, G.N., kand.tekhn.nauk;

WASIMMIKOVA, G.N., kand.tekhn.nauk; TITOVA, V.G., inzh.

Zirconium porcelain. Trudy GIEKI nc.2:14-20 '57. (MIRA 11:7)

(Porcelain) (Zirconium)

TUNANOV, S.G., doktor tekhn.nauk; MASLENNIKOVA, G.N., kand.tekhn.nauk

Investigating ceramic materials on the basis of spodumens.

Trudy GIEKI no.2:83-92 '57.

(Geramic materials) (Spodumene)

(MIRA 11:7)

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